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HIGH DYNAMIC RANGE IMAGE VIEWING ON LOW DYNAMIC RANGE
DISPLAYS

ABSTRACT

5 Techniques and tools for displaying/viewing HDR images are described. In one aspect, a background image constructed from HDR image information is displayed along with portions of the HDR image corresponding to one or more regions of interest. The portions have at least one display parameter (e.g., a tone mapping parameter) that differs from a corresponding display parameter for the background image. Regions of
10 interest and display parameters can be determined by a user (e.g., via a GUI). In another aspect, an intermediate image is determined based on image data corresponding to one or more regions of interest of the HDR image. The intermediate image has a narrower dynamic range than the HDR image. The intermediate image or a derived image is then displayed. The techniques and tools can be used to compare,
15 for example, different tone mappings, compression methods, or color spaces in the background and regions of interest.